

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

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Application Serial Number: 10/542,937A
Source: IFWO
Date Processed by STIC: 1/11/07

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**FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT
MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221**

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1. **EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)**
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Revised 01/10/06



IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/542,937A

DATE: 01/11/2007

TIME: 09:39:07

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 4 Mozas Alonso, Pilar
 5 Pocovi Mieras, Miguel
 6 Tejedor Hernandez, Diego
 7 Mallen Perez, Miguel
 8 Alonso Karlezi, Alberto
 9 Reyes Leal, Gilbert
 10 Castillo Fernandez, Sergio
 11 Martinez Martinez, Antonio
 13 <120> TITLE OF INVENTION: Method and Device for detecting low density lipoprotein receptor

14 gene mutations associated with familial hypercholesterolemia

16 <130> FILE REFERENCE: U015859-4

18 <140> CURRENT APPLICATION NUMBER: 10/542,937A

19 <141> CURRENT FILING DATE: 2005-07-21

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23 <170> SOFTWARE: PatentIn version 3.3

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37 <221> NAME/KEY: CDS

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43 <223> OTHER INFORMATION: n is a, c, g, or t

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see pg 6-9

Does Not Comply
 Corrected Diskette Needed

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388	attaggctgg	gcgtgggtggc	tcgtgcctgt	aatcccagca	ctttgggagg	ctgaggcggg	10320	
390	cggatcacga	ggtcaggaga	tcgagaccgt	cctggctaac	acggtaaaac	cccacatctta	10380	
392	ctaaacatac	aaaaaaaaat	tagccaggtt	ttgtggcggg	cgcctgttagt	cccagctact	10440	
394	caggaggctg	aggcaggaga	gtgggtgtgaa	ctcgggaggc	gcagcttgc	gtgagccgag	10500	
396	actgcgccac	tgcactccag	cctggcaac	agacagagac	tccgtctaa	aaaaaaaaaaa	10560	
398	aaaaaaataca	aaaaatttagc	caggcgtgt	ggcacgtca	cgtgactgta	gtcccagcta	10620	
400	cttgggaggc	tgaggcagga	gaattgttt	aaccggggag	acggaggtt	cagtgagccg	10680	
402	agatcgcc	actgcactcc	agcctgggtt	acagagctag	actccgtaa	aaaacaaaaaa	10740	
404	acaaaaaaca	aaaaaaca	aaaaaaaaaa	cagcaggaac	tggcaggtct	tccctgaaga	10800	
406	gataaaaaaa	aaaaaatgca	gttgcacac	aaaagcagcc	acagagaaaa	gcaaaccat	10860	
408	atatggtatt	tattatgcac	cgagtgtggc	tctaattact	ttttttttt	taattgagag	10920	
410	acagcctggc	tctgttgatt	gggctggagt	gcagtggcgc	gaccgttagct	cattgcagcc	10980	
412	tcaacccct	tggctcaagc	aatccctcta	cctcagcctc	ctgagtagct	gggaccacag	11040	
414	gtgtgagcca	ccacgcctgg	ctaattgtt	ttttttttt	tgtagagaca	gggtctca	11100	
416	atgtggccca	ggctgtttc	caactcctgg	gctcaagtga	tcctccacc	tctgcctccc	11160	
418	aaagtgtgg	ggattacagg	catgagccac	ctcgccctggc	ctctagtc	tttatatatt	11220	
420	ttaacttaat	ccttacaaga	gccctgttag	ctagttacag	gagcacaat	ggaaaccaag	11280	
422	aaacagaaaa	atttatcagc	atgactcagt	cctcagagcc	atgtatggcc	gtgtccgtgc	11340	
424	atggcaggca	ggtcaggggc	ctggggaaacg	ctgttctgga	aaccttggcc	aggccttggc	11400	
426	accgcaggaa	tgtgttttc	agagttttt	tggctcttt	ccagacctgc	cctgacctct	11460	
428	agctctggga	actatgttaag	ccaagtgc	tccggaaagg	gagtcctct	cctggtaact	11520	
430	cttctgggt	aaccagatgt	gactctatga	cacacactga	gcctacgtct	tataattttt	11580	
432	tgtttttgtt	tttgagacag	tttcggctt	cttgc	ctggagtgc	atggtgcgat	11640	
434	ctcggctcac	tgcaacccct	gcctcccagg	ttcaagcgat	tccctgcct	cagcctccct	11700	
436	agtagctgga	attgcaggca	tgccacca	cgccctggct	atttttgt	ttttttttt	11760	
438	tttagtagaa	acggggttt	accttggat	ccaggctgg	caccaactcc	tgacctcagg	11820	
440	tgatccgccc	acctctgc	cccaaagtgc	tgggattaca	ggtgtgagac	agctgtgagc	11880	
442	caccacgccc	ggcgcat	ttttttttt	tttttcagag	ggagtgtccc	tctgtcaccc	11940	
444	agctgaagt	gtagtggcgt	gatctcgcc	cactgttaacc	tctatctccc	aggttcaagt	12000	
446	gattctctgt	actcagcctc	ccaagtgt	gggactacag	gcgcctgct	ccatgcctgg	12060	
448	ctaattttg	tagtttagt	agaaacccggg	tttgc	ttggccaggc	tggctcaaa	12120	
450	ctcttgactt	caggtgatcc	acctgcctt	gccttctgaa	gtgctggat	tatagggcat	12180	
452	gagccactgt	gactggccat	cttaaatttt	ttttttttt	ttttttttt	ttgagacagg	12240	
454	gtttcactct	gtcgc	ccagg	ctggagtgca	aaggcgc	cttggttcac	tgcaagctcc	12300
456	gcttcctggg	ttcatgccc	tccctgc	ctgc	ctgactgag	actacaggcg	12360	
458	cccaccacca	cggccgct	atttttttt	atttttttt	tagagatggg	gtttcac	12420	

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6

<210> 5
<211> 24
<212> DNA
<213> artificialsequence

<400> 5
cacattgaaa tgctgttaat gacg

Artificial Sequence

this needs explanation in <2207-<2237 section
(see p. 7)

24

<210> 6
<211> 24
<212> DNA
<213> artificialsequence

<400> 6
ctattctggc gcctggagca agcc

same errors

in segs 6-257

24

<210> 7
<211> 24
<212> DNA
<213> artificialsequence

<400> 7
ttgagagacc ctttctcctt ttcc

This page
shown as a
sample of errors

24

<210> 8
<211> 20
<212> DNA
<213> artificialsequence

<400> 8
gcatatcatg cccaaagggg

20

<210> 9
<211> 24
<212> DNA
<213> artificialsequence

<400> 9
ttccttgag tgacagttca atcc

24

<210> 10
<211> 24
<212> DNA
<213> artificialsequence

<400> 10
gataggctca atagcaaagg cagg

24

<210> 11
<211> 24
<212> DNA

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 01/11/2007
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Input Set : A:\U015859-4..ST25.txt
Output Set: N:\CRF4\01112007\J542937A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 35360,35361

Use of <220> Feature (NEW RULES):

Sequence(s) are missing the <220> Feature and associated headings.

Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence" or "Unknown". Please explain source of genetic material in <220> to <223> section (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp.29631-32) (Sec.1.823 of new Rules)

Seq#:5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30
Seq#:31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54
Seq#:55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78
Seq#:79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100,101
Seq#:102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119
Seq#:120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137
Seq#:138,139,140,141,142,143,144,145,146,147,148,149,150,151,152,153,154,155
Seq#:156,157,158,159,160,161,162,163,164,165,166,167,168,169,170,171,172,173
Seq#:174,175,176,177,178,179,180,181,182,183,184,185,186,187,188,189,190,191
Seq#:192,193,194,195,196,197,198,199,200,201,202,203,204,205,206,207,208,209
Seq#:210,211,212,213,214,215,216,217,218,219,220,221,222,223,224,225,226,227
Seq#:228,229,230,231,232,233,234,235,236,237,238,239,240,241,242,243,244,245
Seq#:246,247,248,249,250,251,252,253,254,255,256,257

Artificial Sequence

<210> 251
<211> 25
<212> DNA
<213> artificialsequence

delete ;

ctccccatcgtaagcgcgccgg

delete this

<twofivethree;DNA;artificialsequence

<400> 251

ctccccatcg gtcagcgccgg gccgg

25

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<210> 163

<211> 21

<212> DNA

<213> artificial sequence

Artificial Sequence

<400> 163

ccgtcgaaaa cctggatgtc t

21

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VERIFICATION SUMMARY DATE: 01/11/2007
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Input Set : A:\U015859-4..ST25.txt
Output Set: N:\CRF4\01112007\J542937A.raw

L:1230 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:35301
L:2097 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:5, <213>
ORGANISM:artificialsequence
L:2097 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:5, <213>
ORGANISM:artificialsequence
L:2097 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:5,Line#:2097
L:2106 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:6, <213>
ORGANISM:artificialsequence
L:2106 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:6, <213>
ORGANISM:artificialsequence
L:2106 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:6,Line#:2106
L:2115 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:7, <213>
ORGANISM:artificialsequence
L:2115 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:7, <213>
ORGANISM:artificialsequence
L:2115 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:7,Line#:2115
L:2124 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:8, <213>
ORGANISM:artificialsequence
L:2124 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:8, <213>
ORGANISM:artificialsequence
L:2124 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:8,Line#:2124
L:2133 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:9, <213>
ORGANISM:artificialsequence
L:2133 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:9, <213>
ORGANISM:artificialsequence
L:2133 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:9,Line#:2133
L:2142 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:10, <213>
ORGANISM:artificialsequence
L:2142 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:10, <213>
ORGANISM:artificialsequence
L:2142 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:10,Line#:2142
L:2151 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:11, <213>
ORGANISM:artificialsequence
L:2151 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:11, <213>
ORGANISM:artificialsequence
L:2151 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:11,Line#:2151
L:2160 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:12, <213>
ORGANISM:artificialsequence
L:2160 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:12, <213>
ORGANISM:artificialsequence
L:2160 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:12,Line#:2160
L:2169 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:13, <213>
ORGANISM:artificialsequence
L:2169 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:13, <213>
ORGANISM:artificialsequence
L:2169 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:13,Line#:2169
L:2178 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:14, <213>
ORGANISM:artificialsequence
L:2178 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:14, <213>
ORGANISM:artificialsequence
L:2178 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:14,Line#:2178
L:2187 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:15, <213>
ORGANISM:artificialsequence

//

L:2187 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:15, <213>
ORGANISM:artificialsequence
L:2187 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:15,Line#:2187
L:2196 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:16, <213>
ORGANISM:artificialsequence
L:2196 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:16, <213>
ORGANISM:artificialsequence
L:2196 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:16,Line#:2196
L:2205 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:17, <213>
ORGANISM:artificialsequence
L:2205 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:17, <213>
ORGANISM:artificialsequence
L:2205 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:17,Line#:2205
L:2214 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:18, <213>
ORGANISM:artificialsequence
L:2214 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:18, <213>
ORGANISM:artificialsequence
L:2214 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:18,Line#:2214
L:2223 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:19, <213>
ORGANISM:artificialsequence
L:2223 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:19, <213>
ORGANISM:artificialsequence
L:2223 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:19,Line#:2223
L:2232 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:20, <213>
ORGANISM:artificialsequence
L:2232 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:20, <213>
ORGANISM:artificialsequence

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VERIFICATION SUMMARY DATE: 01/11/2007
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Input Set : A:\U015859-4..ST25.txt
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L:2232 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:20,Line#:2232
L:2241 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:21, <213>
ORGANISM:artificialsequence
L:2241 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:21, <213>
ORGANISM:artificialsequence
L:3517 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:163
L:4311 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
L:4313 M:259 W: Allowed number of lines exceeded, <213> ORGANISM: